

Re: NASA Extraction Comparison

Mocka, Corey <mocka.corey@epa.gov>

Mon 9/19/2011 2:50 PM

To: Liu, Xiaoyu <Liu.Xiaoyu@epa.gov>

Cc: Nancy Roache <Roache.NancyLNDU@usepa.onmicrosoft.com>

 1 attachments (22 KB)

NASA_Extraction_Comparison_v2.xlsx;

Aroclor information has been added to the file. I also used the data from Micro-02 to calculate the 1254 concentration. The Micro-2 data shows that the 1254 concentration is actually 0.913%. Neither of our two tests from Friday (hexane vs. EtOH) match the Micro-2 result. There are two possible reasons for this: 1. our sample size is very small compared to the overall length caulk strip (we don't know how the PCBs were mixed initially) and 2. I have a feeling that Andy sonicated a large piece of caulk whereas we cube a small piece increasing the surface area.

But if we focus on the purpose at hand, yes, hexane is a better extraction solvent.

<< NASA_Extraction_Comparison_v2.xlsx >>

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From: Xiaoyu Liu/RTP/USEPA/US
To: Corey Mocka/RTP/USEPA/US@EPA
Cc: Zhishi Guo/RTP/USEPA/US@EPA
Date: 09/19/2011 01:10 PM
Subject: Re: NASA Extraction Comparison

Great! Form this raw data, it shows hexane is much better. Please do a calculation as Aroclor. Thanks.

-----Corey Mocka/RTP/USEPA/US wrote: -----

To: Xiaoyu Liu/RTP/USEPA/US@EPA
From: Corey Mocka/RTP/USEPA/US
Date: 09/19/2011 12:58PM
Cc: Nancy Roache/RTP/USEPA/US@EPA
Subject: NASA Extraction Comparison

Hi Xiaoyu-

Attached is the solvent comparison study. I did not work it up in a formal workbook because I wanted to get the results over to you ASAP. The two DCCs sandwiching this part of the data both failed, so Andy is working on that. For now we can quantitatively say that hexane is the better extraction solvent.

Corey

(See attached file: NASA_Extraction_Comparison.xlsx)

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[attachment "NASA_Extraction_Comparison.xlsx" deleted by Corey Mocka/RTP/USEPA/US]